

Table 4. Census regions and divisions: Percent distribution of employed persons by occupation, sex, race, and Hispanic origin, 1998 annual averages

Population group and occupation	Northeast			Midwest			South				West		
	Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
TOTAL													
Total (in thousands)	24,861	6,865	17,997	31,912	22,063	9,849	45,722	23,702	7,741	14,279	29,105	8,328	20,777
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	31.4	32.9	30.9	28.3	28.1	28.6	28.7	30.0	26.5	27.8	30.9	30.0	31.3
Executive, administrative, and managerial	15.0	15.7	14.7	13.9	14.0	13.8	14.1	14.9	13.2	13.4	15.2	14.8	15.4
Professional specialty	16.5	17.2	16.1	14.3	14.1	14.8	14.6	15.1	13.4	14.4	15.7	15.2	15.9
Engineers	1.5	2.0	1.3	1.5	1.7	1.1	1.5	1.5	1.4	1.5	1.8	1.8	1.8
Mathematical and computer scientists	1.3	1.6	1.2	1.2	1.2	1.2	1.3	1.5	.6	1.2	1.5	1.4	1.6
Health diagnosing occupations	1.0	.9	1.0	.8	.8	.6	.8	.8	.9	.8	.8	.7	.8
Health assessment and treating occupations	2.6	2.6	2.6	2.3	2.3	2.3	2.1	2.1	2.4	2.0	1.9	1.9	1.9
Teachers, except college and university	3.8	3.7	3.9	3.5	3.3	4.0	4.0	3.8	4.2	4.0	3.7	3.6	3.8
Technical, sales, and administrative support	30.1	29.0	30.6	28.8	28.7	29.2	29.4	29.6	29.1	29.2	29.0	29.6	28.8
Technicians and related support	3.2	3.0	3.3	3.2	3.1	3.4	3.3	3.4	3.3	3.2	3.2	3.3	3.2
Health technologists and technicians	1.3	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.3	1.1	1.0	1.1
Engineering and science technicians .....	.9	1.0	.8	.9	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.3	.9
Sales occupations	12.1	11.8	12.2	11.7	11.6	11.9	12.2	12.4	12.2	11.9	12.2	12.7	12.1
Supervisors and proprietors	3.6	3.4	3.7	3.4	3.3	3.6	3.7	3.8	3.9	3.6	3.6	3.6	3.6
Sales representatives, finance and business services	2.2	2.2	2.2	1.9	1.9	1.9	2.0	2.3	1.6	1.8	2.1	2.2	2.0
Sales representatives, commodities, except retail	1.2	1.2	1.2	1.2	1.3	1.2	1.1	1.2	1.1	1.1	1.3	1.2	1.3
Sales workers, retail and personal services	5.0	4.9	5.1	5.0	5.0	5.1	5.3	5.1	5.5	5.4	5.2	5.5	5.1
Administrative support, including clerical	14.8	14.2	15.1	14.0	14.0	13.9	13.9	13.8	13.6	14.1	13.6	13.6	13.5
Computer equipment operators .....	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.2	.2	.2
Secretaries, stenographers, and typists	3.3	2.7	3.5	2.8	2.8	2.8	2.8	2.7	2.7	2.9	2.2	2.3	2.2
Financial records processing	1.6	1.7	1.5	1.7	1.7	1.8	1.7	1.6	1.8	1.8	1.6	1.8	1.6
Mail and message distributing .....	.8	.7	.9	.7	.7	.8	.7	.7	.6	.7	.8	.7	.8
Service occupations	14.5	13.5	14.8	13.0	13.2	12.7	13.3	13.2	12.3	14.0	13.8	14.3	13.6
Private household .....	.6	.5	.7	.4	.4	.4	.6	.6	.4	.8	.9	.5	1.1
Protective service	2.2	1.7	2.4	1.4	1.5	1.2	2.0	2.0	1.7	2.1	1.8	1.9	1.8
Service, except private household and protective	11.6	11.2	11.8	11.2	11.2	11.1	10.7	10.6	10.1	11.1	11.1	11.9	10.8
Food service	4.5	4.5	4.6	4.7	4.8	4.6	4.4	4.3	4.2	4.7	4.9	5.3	4.7
Health service	2.5	2.4	2.5	1.8	1.9	1.8	1.8	1.6	1.9	2.0	1.6	1.5	1.6
Cleaning and building service	2.4	2.2	2.5	2.3	2.3	2.2	2.4	2.5	2.0	2.5	2.3	2.4	2.3
Personal service	2.2	2.1	2.2	2.3	2.2	2.5	2.1	2.1	2.1	2.0	2.3	2.7	2.2
Precision production, craft, and repair	9.9	11.1	9.5	11.1	11.3	10.8	11.7	11.5	12.2	11.7	10.6	11.5	10.2
Mechanics and repairers	3.3	3.4	3.3	3.6	3.5	3.7	3.9	4.0	3.7	3.9	3.6	3.8	3.5
Construction trades	3.7	4.2	3.5	4.0	3.9	4.1	4.8	4.8	5.2	4.5	4.2	4.9	3.9
Operators, fabricators, and laborers	12.5	11.9	12.8	15.8	16.7	13.6	14.4	13.6	17.3	14.2	12.1	11.3	12.4
Machine operators, assemblers, and inspectors	5.3	5.6	5.2	7.4	8.1	5.9	6.1	5.8	8.2	5.3	4.6	3.7	5.0
Transportation and material moving occupations	3.7	3.1	3.9	4.3	4.4	4.1	4.4	4.1	4.9	4.7	3.7	3.8	3.6
Motor vehicle operators	3.1	2.5	3.2	3.2	3.3	3.0	3.2	3.1	3.3	3.5	2.8	2.9	2.8
Handlers, equipment cleaners, helpers, and laborers	3.5	3.2	3.7	4.1	4.2	3.7	3.9	3.7	4.2	4.2	3.9	3.9	3.8
Construction laborers .....	.5	.5	.6	.5	.5	.5	.6	.6	.5	.7	.8	1.0	.7
Farming, forestry, and fishing	1.5	1.6	1.5	2.9	2.0	5.1	2.5	2.1	2.7	3.1	3.6	3.3	3.7
Farm operators and managers .....	.4	.3	.4	1.5	.8	3.2	.9	.5	1.1	1.3	.7	1.0	.6
Men													
Total (in thousands)	13,194	3,608	9,586	16,985	11,756	5,229	24,552	12,585	4,127	7,840	16,035	4,533	11,502
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	30.5	32.0	29.9	26.5	26.8	25.8	27.1	28.5	25.0	25.8	29.5	28.8	29.8
Executive, administrative, and managerial	16.3	16.5	16.2	14.3	14.5	13.7	14.6	15.5	14.2	13.4	15.2	14.7	15.4
Professional specialty	14.2	15.5	13.7	12.2	12.2	12.0	12.4	13.0	10.8	12.5	14.3	14.1	14.4
Engineers	2.5	3.3	2.1	2.5	2.8	1.8	2.5	2.6	2.4	2.5	2.8	3.0	2.8
Mathematical and computer scientists	1.8	2.1	1.7	1.6	1.6	1.5	1.7	2.0	.8	1.6	2.0	1.9	2.1
Health diagnosing occupations	1.3	1.3	1.4	1.1	1.2	.9	1.1	1.1	1.3	1.0	1.0	.9	1.1
Health assessment and treating occupations .....	.6	.5	.7	.5	.6	.5	.7	.5	.8	.8	.6	.6	.6
Teachers, except college and university	1.8	1.7	1.9	1.7	1.5	2.0	1.6	1.5	1.6	1.7	1.9	2.1	1.9
Technical, sales, and administrative support	20.7	19.8	21.0	18.7	18.3	19.7	19.2	19.5	18.3	19.2	19.9	19.5	20.0
Technicians and related support	2.8	2.8	2.9	2.6	2.4	3.0	2.8	2.8	2.7	3.0	2.9	3.0	2.9

See footnotes at end of table.

Table 4. Census regions and divisions: Percent distribution of employed persons by occupation, sex, race, and Hispanic origin, 1998 annual averages — Continued

Population group and occupation	Northeast			Midwest			South			West			
	Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
Men—Continued													
Health technologists and technicians .....	.5	.4	.5	.4	.4	.4	.5	.5	.5	.5	.5	.5	.5
Engineering and science technicians	1.3	1.3	1.2	1.2	1.1	1.3	1.4	1.3	1.3	1.6	1.3	1.7	1.2
Sales occupations	11.5	10.8	11.8	10.8	10.5	11.5	11.1	11.6	10.7	10.6	11.2	11.4	11.1
Supervisors and proprietors	4.1	3.3	4.4	3.9	3.7	4.2	4.1	4.2	4.1	4.0	3.9	4.0	3.8
Sales representatives, finance and business services	2.4	2.5	2.4	2.0	1.9	2.0	2.1	2.4	1.6	1.8	2.2	2.4	2.1
Sales representatives, commodities, except retail	1.7	1.8	1.6	1.8	1.8	1.7	1.6	1.6	1.6	1.5	1.6	1.6	1.7
Sales workers, retail and personal services	3.3	3.2	3.3	3.1	3.0	3.5	3.3	3.4	3.3	3.3	3.5	3.4	3.5
Administrative support, including clerical	6.3	6.2	6.3	5.4	5.4	5.2	5.2	5.1	4.9	5.6	5.7	5.0	6.0
Computer equipment operators .....	.3	.3	.3	.3	.3	.3	.2	.2	.2	.3	.2	.2	.2
Secretaries, stenographers, and typists .....	.2	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1
Financial records processing .....	.3	.2	.3	.2	.2	.3	.2	.2	.2	.3	.2	.3	.2
Mail and message distributing	1.1	.9	1.1	.8	.7	.9	.8	.8	.6	.8	.9	.8	.9
Service occupations	11.7	10.3	12.2	9.0	9.2	8.6	9.8	10.2	8.6	9.9	10.8	11.1	10.7
Private household .....	.1	.1	.1	(¹)	(¹)	.1	.1	.1	.1	(¹)	.1	.1	.1
Protective service	3.5	2.8	3.7	2.2	2.4	1.8	3.0	3.0	2.6	3.1	2.7	2.8	2.6
Service, except private household and protective	8.2	7.5	8.5	6.8	6.8	6.8	6.8	7.2	5.9	6.7	8.1	8.2	8.0
Food service	4.0	3.7	4.2	3.4	3.4	3.3	3.4	3.6	2.8	3.5	4.4	4.4	4.4
Health service .....	.5	.4	.5	.3	.3	.4	.4	.3	.5	.4	.4	.3	.5
Cleaning and building service	2.8	2.7	2.9	2.5	2.5	2.4	2.3	2.4	1.8	2.4	2.3	2.4	2.3
Personal service .....	.8	.7	.9	.6	.6	.6	.7	.8	.8	.5	.9	1.1	.9
Precision production, craft, and repair	17.2	19.0	16.5	19.0	19.3	18.4	20.0	19.8	20.8	19.7	17.6	19.5	16.9
Mechanics and repairers	6.0	6.2	5.9	6.5	6.4	6.6	7.0	7.2	6.8	6.7	6.2	6.7	6.0
Construction trades	6.9	7.9	6.5	7.3	7.2	7.5	8.7	8.9	9.5	8.0	7.5	8.8	6.9
Operators, fabricators, and laborers	17.8	16.4	18.3	22.3	23.4	19.8	20.1	18.8	23.2	20.7	16.9	16.2	17.2
Machine operators, assemblers, and inspectors	6.1	6.3	6.0	9.3	10.1	7.4	6.8	6.3	8.9	6.5	5.2	4.2	5.6
Transportation and material moving occupations	6.2	5.3	6.6	7.3	7.4	6.9	7.4	6.8	8.3	7.8	6.0	6.1	5.9
Motor vehicle operators	5.1	4.4	5.4	5.3	5.5	4.9	5.3	5.0	5.6	5.7	4.5	4.5	4.5
Handlers, equipment cleaners, helpers, and laborers	5.5	4.8	5.7	5.7	5.8	5.5	5.9	5.7	6.1	6.3	5.7	5.9	5.6
Construction laborers	1.0	.9	1.0	1.0	1.0	1.0	1.1	1.2	.9	1.1	1.4	1.7	1.2
Farming, forestry, and fishing	2.2	2.5	2.1	4.5	3.1	7.7	3.8	3.2	4.1	4.7	5.3	5.0	5.4
Farm operators and managers .....	.5	.5	.5	2.3	1.2	4.8	1.2	.7	1.6	1.8	1.0	1.4	.8
Women													
Total (in thousands)	11,668	3,257	8,411	14,927	10,307	4,620	21,170	11,117	3,614	6,439	13,070	3,795	9,275
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	32.5	34.0	32.0	30.3	29.7	31.9	30.7	31.7	28.4	30.3	32.7	31.4	33.2
Executive, administrative, and managerial	13.5	14.8	13.1	13.5	13.3	13.9	13.6	14.2	12.1	13.4	15.3	14.9	15.5
Professional specialty	19.0	19.2	18.9	16.8	16.3	17.9	17.1	17.5	16.3	16.8	17.4	16.5	17.7
Engineers .....	.4	.5	.3	.3	.4	.3	.3	.3	.2	.4	.5	.4	.6
Mathematical and computer scientists .....	.8	1.0	.7	.8	.8	.8	.8	1.0	.4	.7	.9	.8	.9
Health diagnosing occupations .....	.5	.5	.6	.4	.4	.3	.4	.4	.4	.4	.5	.5	.6
Health assessment and treating occupations	4.8	4.9	4.7	4.4	4.4	4.4	3.8	3.8	4.3	3.4	3.5	3.5	3.5
Teachers, except college and university	6.1	5.8	6.2	5.6	5.3	6.4	6.7	6.5	7.1	6.9	5.9	5.5	6.0
Technical, sales, and administrative support	40.8	39.1	41.4	40.3	40.5	39.9	41.2	41.0	41.4	41.3	40.2	41.6	39.7
Technicians and related support	3.7	3.3	3.8	3.8	3.9	3.8	3.9	4.1	4.0	3.5	3.6	3.6	3.5
Health technologists and technicians	2.3	1.9	2.5	2.6	2.6	2.5	2.5	2.5	2.7	2.3	1.8	1.7	1.9
Engineering and science technicians .....	.4	.6	.4	.5	.5	.6	.5	.6	.6	.4	.7	.8	.6
Sales occupations	12.7	12.8	12.6	12.7	12.9	12.3	13.4	13.3	13.8	13.4	13.5	14.1	13.2
Supervisors and proprietors	3.0	3.4	2.8	2.9	2.9	3.3	3.3	3.3	3.7	3.1	3.2	3.1	3.2
Sales representatives, finance and business services	2.0	1.9	2.0	1.8	1.8	1.9	1.9	2.1	1.5	1.7	2.0	2.1	1.9
Sales representatives, commodities, except retail .....	.6	.6	.7	.7	.7	.5	.6	.7	.4	.6	.8	.7	.9
Sales workers, retail and personal services	7.0	6.8	7.0	7.2	7.3	6.9	7.5	7.1	8.1	8.0	7.4	8.0	7.1
Administrative support, including clerical	24.5	23.0	25.0	23.8	23.8	23.7	23.8	23.6	23.6	24.4	23.2	23.9	22.9
Computer equipment operators .....	.4	.4	.4	.3	.4	.2	.4	.4	.4	.3	.3	.3	.2
Secretaries, stenographers, and typists	6.7	5.6	7.2	5.8	5.8	5.8	5.9	5.6	5.7	6.4	4.8	4.9	4.7
Financial records processing	3.1	3.4	3.0	3.4	3.4	3.5	3.5	3.3	3.6	3.7	3.3	3.6	3.3

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Population group and occupation	Northeast			Midwest			South			West			
	Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
Women—Continued													
Mail and message distributing .....	.5	.5	.6	.7	.7	.6	.6	.6	.6	.5	.7	.5	.7
Service occupations	17.6	16.9	17.8	17.6	17.7	17.3	17.3	16.6	16.5	18.9	17.5	18.1	17.2
Private household	1.3	1.0	1.4	.9	.9	.8	1.3	1.2	.9	1.6	1.9	1.1	2.3
Protective service .....	.8	.6	.9	.5	.6	.4	.8	.9	.6	.8	.7	.7	.7
Service, except private household and protective	15.5	15.4	15.6	16.2	16.3	16.1	15.2	14.6	15.0	16.5	14.9	16.3	14.3
Food service	5.1	5.3	5.1	6.2	6.3	6.1	5.6	5.2	5.8	6.1	5.5	6.4	5.2
Health service	4.7	4.7	4.8	3.6	3.7	3.4	3.4	3.1	3.4	3.9	3.0	2.9	3.0
Cleaning and building service	1.9	1.7	2.0	2.1	2.2	1.9	2.6	2.7	2.1	2.7	2.3	2.5	2.2
Personal service	3.7	3.7	3.8	4.3	4.1	4.7	3.6	3.5	3.6	3.8	4.0	4.5	3.8
Precision production, craft, and repair	1.8	2.4	1.6	2.1	2.1	2.2	2.0	2.0	2.3	1.9	1.9	2.0	1.9
Mechanics and repairers .....	.2	.3	.2	.3	.3	.3	.3	.4	.2	.4	.3	.3	.3
Construction trades .....	.1	.2	.1	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2
Operators, fabricators, and laborers	6.6	6.9	6.5	8.4	9.1	6.7	7.8	7.8	10.5	6.4	6.2	5.5	6.5
Machine operators, assemblers, and inspectors	4.5	4.9	4.3	5.2	5.8	4.1	5.2	5.3	7.4	3.9	3.9	3.0	4.2
Transportation and material moving occupations .....	.8	.6	.9	.9	.9	1.0	1.0	1.0	1.0	.9	.8	1.0	.8
Motor vehicle operators .....	.7	.6	.8	.7	.7	.8	.8	.8	.7	.8	.8	.9	.7
Handlers, equipment cleaners, helpers, and laborers	1.3	1.4	1.3	2.2	2.4	1.6	1.6	1.5	2.1	1.6	1.6	1.5	1.6
Construction laborers .....	(^{1})	(^{1})	(^{1})	(^{1})	(¹)	(¹)	.1	.1	.1	.1	.1	.1	.1
Farming, forestry, and fishing .....	.7	.7	.7	1.2	.8	2.1	1.0	.9	1.0	1.2	1.5	1.3	1.5
Farm operators and managers .....	.2	.2	.2	.7	.3	1.4	.5	.3	.5	.8	.4	.6	.3
White													
Total (in thousands)	21,389	6,396	14,993	28,656	19,462	9,194	36,299	18,207	6,244	11,847	24,697	7,738	16,958
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	32.4	33.7	31.8	28.7	28.7	28.8	31.0	32.9	29.1	29.0	31.2	30.6	31.4
Executive, administrative, and managerial	15.7	16.2	15.5	14.4	14.5	14.0	15.5	16.6	14.7	14.3	15.5	15.0	15.6
Professional specialty	16.7	17.4	16.4	14.4	14.1	14.8	15.5	16.3	14.5	14.8	15.7	15.5	15.8
Engineers	1.5	2.0	1.3	1.5	1.7	1.1	1.7	1.7	1.5	1.6	1.7	1.8	1.7
Mathematical and computer scientists	1.3	1.5	1.2	1.2	1.2	1.2	1.3	1.6	.6	1.1	1.4	1.4	1.5
Health diagnosing occupations	1.0	.9	1.0	.7	.8	.6	.9	.9	.9	.8	.8	.7	.8
Health assessment and treating occupations	2.5	2.6	2.4	2.3	2.3	2.4	2.2	2.3	2.7	1.9	1.8	2.0	1.8
Teachers, except college and university	4.0	3.7	4.2	3.6	3.4	4.1	4.1	4.0	4.4	4.1	3.9	3.7	4.0
Technical, sales, and administrative support	30.1	29.0	30.6	28.8	28.6	29.2	29.8	30.1	29.9	29.1	28.5	29.6	28.0
Technicians and related support	3.1	3.0	3.2	3.1	3.0	3.4	3.3	3.5	3.3	3.2	3.2	3.3	3.1
Health technologists and technicians	1.3	1.1	1.3	1.4	1.4	1.4	1.3	1.4	1.5	1.2	1.1	1.0	1.1
Engineering and science technicians .....	.9	1.0	.9	.9	.8	1.0	1.0	1.0	1.0	1.1	1.0	1.3	.9
Sales occupations	12.3	11.9	12.5	11.9	11.8	12.1	12.7	13.2	12.9	11.9	12.4	12.7	12.2
Supervisors and proprietors	3.8	3.5	3.9	3.6	3.5	3.8	4.0	4.1	4.4	3.7	3.6	3.7	3.5
Sales representatives, finance and business services	2.3	2.3	2.3	1.9	1.9	2.0	2.2	2.6	1.7	1.9	2.2	2.3	2.1
Sales representatives, commodities, except retail	1.3	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.3	1.2	1.4	1.2	1.4
Sales workers, retail and personal services	4.9	4.9	4.9	4.9	4.9	5.0	5.1	5.0	5.4	5.0	5.2	5.4	5.1
Administrative support, including clerical	14.6	14.1	14.8	13.8	13.8	13.8	13.7	13.5	13.7	14.1	12.9	13.5	12.7
Computer equipment operators .....	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.2	.2	.2
Secretaries, stenographers, and typists	3.3	2.7	3.6	2.8	2.8	2.9	2.9	2.8	3.0	3.1	2.2	2.4	2.1
Financial records processing	1.7	1.8	1.7	1.8	1.8	1.8	1.9	1.8	2.0	2.0	1.6	1.8	1.5
Mail and message distributing .....	.8	.7	.8	.6	.6	.7	.6	.6	.5	.6	.6	.6	.6
Service occupations	13.2	12.9	13.3	12.3	12.3	12.3	11.5	11.2	10.1	12.6	13.4	13.8	13.3
Private household .....	.6	.5	.6	.4	.5	.4	.6	.5	.4	.8	1.0	.5	1.2
Protective service	2.1	1.7	2.2	1.3	1.4	1.1	1.8	1.8	1.5	1.9	1.8	1.9	1.7
Service, except private household and protective	10.5	10.7	10.4	10.5	10.4	10.8	9.1	8.9	8.2	10.0	10.7	11.4	10.3
Food service	4.5	4.4	4.5	4.6	4.7	4.5	4.1	4.1	3.7	4.3	4.8	5.1	4.7
Health service	1.8	2.1	1.7	1.6	1.5	1.7	1.2	1.0	1.3	1.4	1.4	1.4	1.4
Cleaning and building service	2.1	2.1	2.2	2.0	2.0	2.1	1.8	1.8	1.3	2.2	2.2	2.3	2.2
Personal service	2.1	2.1	2.1	2.3	2.1	2.5	2.0	2.0	1.9	2.0	2.3	2.5	2.1
Precision production, craft, and repair	10.4	11.3	10.0	11.6	11.8	11.1	12.4	12.3	12.8	12.4	10.8	11.6	10.5
Mechanics and repairers	3.4	3.4	3.5	3.7	3.7	3.8	4.2	4.3	4.0	4.2	3.6	3.8	3.5

See footnotes at end of table.

Table 4. Census regions and divisions: Percent distribution of employed persons by occupation, sex, race, and Hispanic origin, 1998 annual averages — Continued

Population group and occupation	Northeast			Midwest			South				West		
	Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
White—Continued													
Construction trades	4.0	4.4	3.8	4.2	4.2	4.3	5.2	5.3	5.6	4.9	4.5	5.0	4.3
Operators, fabricators, and laborers	12.3	11.5	12.7	15.4	16.4	13.2	12.6	11.2	15.3	13.4	12.2	11.1	12.7
Machine operators, assemblers, and inspectors ..	5.2	5.3	5.2	7.2	8.0	5.6	5.1	4.5	7.0	4.9	4.5	3.4	5.0
Transportation and material moving occupations ..	3.6	3.1	3.8	4.2	4.2	4.1	4.0	3.5	4.6	4.4	3.8	3.8	3.8
Motor vehicle operators	3.0	2.5	3.2	3.1	3.2	3.0	2.9	2.6	3.2	3.3	2.8	2.8	2.8
Handlers, equipment cleaners, helpers, and laborers	3.5	3.1	3.6	3.9	4.2	3.5	3.5	3.2	3.7	4.0	3.9	3.9	3.9
Construction laborers .....	.5	.5	.6	.5	.6	.5	.6	.6	.5	.6	.9	1.0	.8
Farming, forestry, and fishing	1.6	1.7	1.6	3.2	2.2	5.4	2.8	2.3	2.8	3.4	3.9	3.5	4.1
Farm operators and managers .....	.4	.4	.5	1.7	.9	3.4	1.0	.6	1.3	1.5	.8	1.1	.6
Black													
Total (in thousands)	2,532	339	2,193	2,492	2,074	418	8,223	4,884	1,420	1,918	1,325	214	1,111
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	21.7	18.0	22.3	21.0	20.2	24.9	18.2	18.5	14.9	19.8	28.9	21.5	30.3
Executive, administrative, and managerial	9.3	6.8	9.7	10.0	9.5	12.2	8.5	8.9	7.1	8.6	13.9	11.7	14.3
Professional specialty	12.4	11.2	12.6	11.0	10.8	12.4	9.6	9.6	7.7	11.3	15.1	9.8	16.0
Engineers .....	.4	.9	.4	.6	.6	.5	.5	.5	.7	.5	1.1	.9	1.1
Mathematical and computer scientists .....	.8	.3	.8	.7	.7	.7	.9	1.0	.5	1.0	1.2	.5	1.4
Health diagnosing occupations .....	.4	.9	.3	.4	.4	.5	.2	.1	.3	.4	.5	.5	.5
Health assessment and treating occupations	3.1	2.4	3.2	1.4	1.6	.7	1.5	1.4	1.1	2.0	1.8	.9	2.0
Teachers, except college and university	2.9	3.5	2.8	3.3	3.0	4.8	3.5	3.4	3.3	3.9	3.9	1.9	4.3
Technical, sales, and administrative support	31.2	29.2	31.5	30.0	29.7	31.3	28.0	28.1	26.1	29.1	32.8	32.2	32.9
Technicians and related support	3.5	3.5	3.6	2.8	2.7	2.9	3.1	3.1	3.3	2.8	2.5	1.9	2.6
Health technologists and technicians	1.9	2.1	1.9	1.7	1.7	1.7	1.6	1.6	1.8	1.6	1.2	.5	1.4
Engineering and science technicians .....	.7	.6	.7	.5	.5	.7	.9	.9	1.0	.7	.5	.5	.5
Sales occupations	9.7	10.0	9.7	10.0	9.8	10.8	9.7	9.4	9.0	10.8	9.5	11.2	9.2
Supervisors and proprietors	1.9	1.8	1.9	1.9	1.9	1.9	2.2	2.2	2.0	2.5	2.2	1.9	2.3
Sales representatives, finance and business services	1.6	1.5	1.6	1.6	1.7	1.2	1.2	1.2	.8	1.3	2.1	2.3	2.1
Sales representatives, commodities, except retail .....	.2	(1)	.2	.2	.3	(1)	.3	.4	.1	.3	.7	.9	.6
Sales workers, retail and personal services	6.0	6.5	5.9	6.2	5.9	7.4	5.9	5.6	6.0	6.8	4.5	6.1	4.1
Administrative support, including clerical	17.9	15.9	18.2	17.3	17.2	17.7	15.2	15.6	13.8	15.4	20.8	19.2	21.1
Computer equipment operators .....	.6	.3	.6	.5	.5	.5	.3	.4	.2	.1	.3	.5	.3
Secretaries, stenographers, and typists	3.1	3.2	3.1	2.2	2.5	1.0	2.2	2.4	1.8	2.1	2.0	1.9	2.1
Financial records processing .....	.9	.6	.9	1.2	1.2	1.2	1.1	1.3	1.1	.8	1.9	1.4	2.0
Mail and message distributing	1.4	1.2	1.5	1.9	1.9	2.2	1.3	1.4	1.0	1.1	1.7	2.3	1.5
Service occupations	25.5	24.8	25.6	21.5	21.8	20.1	20.9	20.1	21.5	22.5	18.9	24.3	17.8
Private household	1.1	.6	1.2	.4	.5	.2	.9	.9	.7	.7	.5	.5	.6
Protective service	3.7	2.7	3.9	2.8	2.7	3.3	3.0	2.9	2.5	3.9	3.8	3.3	3.9
Service, except private household and protective	20.7	21.5	20.5	18.3	18.7	16.5	17.0	16.3	18.4	17.9	14.5	20.6	13.3
Food service	4.3	4.7	4.3	5.2	4.9	6.5	5.2	4.5	6.3	6.2	3.8	7.9	3.1
Health service	8.5	9.4	8.3	4.8	5.0	3.6	4.4	4.0	4.2	5.5	4.1	3.3	4.2
Cleaning and building service	4.9	5.3	4.8	5.1	5.3	4.3	5.1	5.5	4.8	4.3	2.9	4.2	2.6
Personal service	3.0	2.1	3.1	3.3	3.5	2.2	2.3	2.3	3.0	1.9	3.6	4.7	3.4
Precision production, craft, and repair	7.3	9.7	7.0	6.7	7.0	5.5	8.6	8.7	9.9	7.4	7.4	7.5	7.4
Mechanics and repairers	2.5	2.7	2.5	2.1	2.0	2.2	2.7	2.9	2.7	2.3	3.2	3.7	3.1
Construction trades	2.4	2.1	2.4	2.1	2.3	1.0	3.1	3.1	3.7	2.5	2.6	1.4	2.8
Operators, fabricators, and laborers	13.7	17.4	13.1	20.3	20.7	17.9	22.7	23.0	25.6	19.8	11.5	14.0	11.0
Machine operators, assemblers, and inspectors ..	4.9	8.0	4.5	8.1	8.6	5.7	10.1	10.4	13.5	7.0	3.0	4.2	2.8
Transportation and material moving occupations ..	4.5	4.1	4.6	6.2	6.4	5.3	6.6	6.7	6.1	6.9	4.6	4.7	4.6
Motor vehicle operators	3.8	3.5	3.8	4.6	4.7	3.8	4.8	4.8	3.8	5.4	4.4	4.7	4.3
Handlers, equipment cleaners, helpers, and laborers	4.2	5.3	4.1	6.0	5.7	7.2	5.9	5.9	6.0	5.9	3.8	4.7	3.7
Construction laborers .....	.6	(1)	.7	.5	.5	.7	.8	.8	.6	.7	.4	1.4	.3
Farming, forestry, and fishing .....	.6	.6	.5	.4	.5	.2	1.7	1.6	2.1	1.5	.6	.9	.6
Farm operators and managers	(1)	(1)	(1)	(1)	(1)	(1)	.2	.2	.2	.2	(1)	.2	.2

See footnotes at end of table.

Table 4. Census regions and divisions: Percent distribution of employed persons by occupation, sex, race, and Hispanic origin, 1998 annual averages — Continued

Population group and occupation	Northeast			Midwest			South			West			
	Total	New England	Middle Atlantic	Total	East North Central	West North Central	Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
Hispanic origin													
Total (in thousands)	1,955	301	1,654	1,075	855	220	4,513	1,636	69	2,808	5,778	1,373	4,406
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	16.0	15.0	16.1	13.4	13.2	14.1	16.5	19.7	21.7	14.4	12.7	13.5	12.5
Executive, administrative, and managerial	8.7	6.0	9.2	7.4	7.3	8.2	8.4	10.3	4.3	7.5	6.9	7.3	6.8
Professional specialty	7.3	9.0	7.0	6.0	6.0	5.9	8.1	9.5	18.8	7.0	5.8	6.1	5.7
Engineers .....	.5	.3	.5	.5	.6	(¹)	.7	.7	1.4	.7	.5	.5	.5
Mathematical and computer scientists .....	.6	1.7	.4	.8	.8	.9	.5	.7	(¹)	.4	.5	.7	.5
Health diagnosing occupations .....	.4	.3	.4	.5	.5	.5	.5	.9	2.9	.2	.1	.1	.1
Health assessment and treating occupations .....	.7	.7	.7	.7	.6	.9	.9	1.0	4.3	.7	.7	.9	.6
Teachers, except college and university	1.8	2.7	1.8	1.5	1.6	.9	2.4	2.3	1.4	2.5	1.8	1.8	1.8
Technical, sales, and administrative support	25.7	19.6	26.8	20.0	20.5	18.2	25.6	27.1	21.7	24.8	22.9	25.1	22.2
Technicians and related support	2.0	1.3	2.2	1.8	2.0	.9	2.5	3.0	2.9	2.2	1.9	2.4	1.8
Health technologists and technicians	1.0	.7	1.1	.6	.6	.5	1.0	1.3	(¹)	.9	.9	.9	.9
Engineering and science technicians .....	.5	(¹)	.5	.3	.4	.5	1.0	.8	2.9	1.1	.6	.8	.5
Sales occupations	9.3	7.6	9.6	7.9	7.5	9.1	10.3	11.1	8.7	9.9	8.9	10.4	8.5
Supervisors and proprietors	2.1	1.0	2.4	2.3	2.3	2.3	2.4	2.7	1.4	2.3	2.1	2.8	2.0
Sales representatives, finance and business services .....	.8	1.0	.7	.4	.4	.5	1.5	1.8	(¹)	1.2	.8	1.1	.7
Sales representatives, commodities, except retail .....	.6	(¹)	.7	.5	.5	.5	.7	1.0	1.4	.5	.7	.9	.6
Sales workers, retail and personal services	5.8	6.0	5.8	4.7	4.3	6.4	5.7	5.5	5.8	5.8	5.4	5.7	5.3
Administrative support, including clerical	14.4	10.6	15.1	10.4	11.0	7.7	12.8	13.1	10.1	12.6	12.0	12.3	11.9
Computer equipment operators .....	.2	.3	.2	.4	.5	(¹)	.2	(¹)	(¹)	.3	.2	.1	.2
Secretaries, stenographers, and typists	2.8	1.3	3.1	1.1	1.1	1.4	1.9	2.3	4.3	1.6	1.7	2.3	1.5
Financial records processing	1.1	1.3	1.0	.7	.7	.9	1.4	1.1	2.9	1.5	.9	1.3	.8
Mail and message distributing	1.2	.3	1.3	.6	.4	1.4	.6	.4	(¹)	.7	.8	.9	.8
Service occupations	23.8	26.9	23.3	19.1	18.0	23.2	19.2	18.7	18.8	19.6	19.7	20.7	19.4
Private household	2.0	2.7	1.9	.4	.2	.5	1.9	2.0	2.9	1.9	2.3	.8	2.8
Protective service	2.3	1.7	2.4	.7	.8	.5	1.4	1.5	2.9	1.4	1.5	1.6	1.5
Service, except private household and protective	19.6	22.6	19.0	18.0	17.0	22.3	15.9	15.3	13.0	16.3	15.8	18.2	15.1
Food service	7.8	7.0	7.9	10.7	9.9	13.6	7.5	7.2	8.7	7.5	7.5	8.6	7.1
Health service	3.2	4.7	3.0	1.2	1.3	.9	1.9	1.6	1.4	2.1	1.5	1.5	1.5
Cleaning and building service	5.6	7.3	5.4	4.0	3.6	5.5	4.7	4.4	(¹)	4.9	4.8	5.8	4.4
Personal service	2.9	3.7	2.8	2.0	2.1	1.8	1.9	2.1	1.4	1.7	2.1	2.3	2.1
Precision production, craft, and repair	9.7	13.3	9.1	13.4	12.9	15.5	15.3	13.7	10.1	16.5	13.3	15.7	12.6
Mechanics and repairers	2.8	4.7	2.5	3.2	3.5	1.8	4.0	3.9	1.4	4.2	3.9	4.4	3.8
Construction trades	3.4	2.3	3.6	4.7	4.4	5.9	7.6	7.2	7.2	7.8	5.7	7.5	5.1
Operators, fabricators, and laborers	23.6	24.9	23.4	30.9	32.2	25.5	18.8	15.8	21.7	20.5	22.2	18.4	23.3
Machine operators, assemblers, and inspectors	11.8	16.6	10.9	17.7	18.4	15.5	7.5	5.9	14.5	8.3	10.1	6.2	11.3
Transportation and material moving occupations	4.9	2.0	5.4	4.9	5.4	3.2	4.7	3.8	(¹)	5.3	4.8	4.7	4.9
Motor vehicle operators	4.3	1.3	4.9	3.4	3.7	2.3	3.5	3.3	(¹)	3.7	3.6	3.4	3.7
Handlers, equipment cleaners, helpers, and laborers	6.9	6.3	7.0	8.3	8.5	7.3	6.6	6.1	5.8	6.9	7.2	7.6	7.1
Construction laborers	1.1	.7	1.1	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.6	2.1	1.5
Farming, forestry, and fishing	1.2	.3	1.3	3.2	3.2	3.2	4.5	4.9	5.8	4.3	9.2	6.7	10.0
Farm operators and managers .....	.1	(¹)	.1	.2	.1	(¹)	.2	.2	(¹)	.2	.2	.3	.2

¹ Less than 500 persons employed or less than 0.05 percent of total employed.

NOTE: Totals for the summary groups published include other occupations, not shown separately. Items may not add to totals or compute to displayed

percentages because of rounding. Detail for race and Hispanic-origin groups will not add to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.